

Title (en)

Modular microfluidic sample preparation system and method of mixing and delivering a sample fluid.

Title (de)

Modulares mikrofluidisches Probenvorbereitungssystem und Verfahren zum Mischen und Liefern einer Probenflüssigkeit

Title (fr)

Système modulaire de préparation d'échantillons microfluidiques et procédé de mélange et de fourniture d'un échantillon fluide

Publication

EP 2281631 A1 20110209 (EN)

Application

EP 09167507 A 20090807

Priority

EP 09167507 A 20090807

Abstract (en)

A modular microfluidic sample preparation system (1), wherein the system comprises a first preparation module (2). The first preparation module (2) comprising a first surface (24) and an opposing second surface (25) and being delimited by first lateral faces (7). The first preparation module (2) comprises an outlet (38) arranged at the second surface (25) of the first preparation module (2) and an inlet (4), the inlet (4) and the outlet (38) being connected via a first microfluidic channel system (26). A second preparation module (3) comprises a first surface and an opposing second surface and being delimited by second lateral faces (8). Said second preparation module (3) further comprises an intake (10). The intake (10) being connected to a second microfluidic channel system (50). The first preparation module (2) is connected to the second preparation module (3) so that the second surface (25) faces the first surface of the second preparation module (3) and so that the outlet (38) faces the intake (10).

IPC 8 full level

B01L 3/00 (2006.01)

CPC (source: EP)

B01L 3/502715 (2013.01); **B01L 3/5635** (2013.01); **B01L 3/502707** (2013.01); **B01L 2200/025** (2013.01); **B01L 2200/028** (2013.01); **B01L 2200/0689** (2013.01); **B01L 2200/16** (2013.01); **B01L 2300/022** (2013.01); **B01L 2300/043** (2013.01); **B01L 2300/0681** (2013.01); **B01L 2300/0867** (2013.01); **B01L 2300/0874** (2013.01); **B01L 2400/0406** (2013.01); **B01L 2400/0481** (2013.01); **B01L 2400/0487** (2013.01); **B01L 2400/0688** (2013.01)

Citation (search report)

- [XY] WO 2007004103 A1 20070111 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [X] US 2006263914 A1 20061123 - SANDO YASUHIRO [JP], et al
- [X] US 5053197 A 19911001 - BOWEN MARK S [US]
- [X] EP 0470438 A1 19920212 - MILES INC [US]
- [Y] WO 9958956 A1 19991118 - CARESIDE INC [US]

Cited by

US11519845B2; CN106573240A; US11085931B2; US11119096B2; US10029041B2; WO2013071301A1; US9625465B2; US10434508B2; WO2016001795A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2281631 A1 20110209; EP 2281631 B1 20161214; DK 2281631 T3 20170320

DOCDB simple family (application)

EP 09167507 A 20090807; DK 09167507 T 20090807